

Method of Watching a Person to Be Diagnosed/Treated in Time and System Thereof

Field of the Invention

5 The present invention relates to a method and a system of watching a person to be diagnosed/treated in time.

Background of the Invention

After receiving treatments from doctors, certain patients should
10 continue their treatments. However, due to lack of an adequate reminding system, the hospitals or doctors are unable to remind the patients of their appointments in advance or after the patients miss their appointments. Therefore, certain patients suffer a higher risk of seizure or death from cardiovascular diseases when they miss their appointments.

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Summary of the Invention

The present invention provides a method and a system of and watching a person to be diagnosed/treated in time to solve the above-mentioned problems long existed in the medical field.

20 In one aspect of the present invention, a method of watching a person to be diagnosed/treated in time according to the present invention is carried out via a network.

In another aspect of the present invention, a system of watching a person to be diagnosed/treated in time according to the present invention

works cooperatively with a network.

Brief Description of the Drawings

Fig. 1 is a flowchart showing a method of watching a person to be
5 diagnosed/treated in time according to a first embodiment of the present invention.

Fig. 2 is a schematic block diagram showing a system of watching a person to be diagnosed/treated in time according to the present invention.

Fig. 3 is a flowchart showing a method of periodically and constantly
10 recording and watching a person's blood pressure according to a second embodiment of the present invention.

Fig. 4 is a flowchart comprising steps for deciding whether a client is a new hypertensive patient or not based on the blood pressure data.

Fig. 5 is a flowchart showing a method of watching a child to be
15 vaccinated in time according to a third embodiment of the present invention.

Fig. 6 is a flowchart showing a method of periodically and constantly recording and watching a person's blood sugar according to a fourth embodiment of the present invention.

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Detailed Description of the Invention

The present invention discloses a method of watching a person to be diagnosed/treated in time comprising the following steps carried out in a computer system:

a) determining time for a person to be diagnosed/treated according to medical criteria on his/her medical data recorded in a medical database of persons;

b) notifying said person to be diagnosed/treated according to the
5 determined time in advance the determined time;

c) reminding said person of the determined time if said computer system should fail to receive a confirmation of said person's diagnosis/treatment after the determined time; and

d) entering diagnosis/treatment data of said person into the medical
10 database of persons, if said computer system receives the confirmation.

Preferably, said reminding is once per day.

Preferably, said notifying or said reminding step adopt a WAP system.

The present invention also discloses a system of watching a person to be diagnosed/treated in time comprising:

15 a database server;

a network server; and

communication means;

wherein said database server is built-in with a medical database and with a software, so that

20 A) said database server determines time for a person to be diagnosed/treated according to his/her medical data recorded in said medical database;

B) said network server and said communication means notify said person to be diagnosed/treated according to the determined time in

advance the determined time; and

C) said network server and said communication means remind said person of the determined time if said network server should fail to receive a confirmation of said person's diagnosis/treatment after the determined
5 time.

The database server used in the system of the present invention can be any known database servers.

The network server can be any known network servers, and said communication means can adopt any known communication means,
10 preferably wireless communication means, more preferably a WAP system.

Said determination can be a regular determination or a random determination. Preferably, the determination is carried out after each recordal of the latest diagnosis/treatment in order to save the time spent on the determination.

15 The content of notification can be a simple date of the diagnosis/treatment, or can be added with other contents, such as medical common sense/knowledge/information related to the diagnosis/treatment.

Preferably, the diagnosis/treatment to be applied to the person is health examination, and the medical database is a database of health
20 examination data.

In one aspect of the present invention, the diagnosis/treatment to be applied to the person is a blood pressure measurement, the medical database is a blood pressure database, and said medical criteria for determining time for blood pressure measurement are:

once per two years if the blood pressure $< 130/85$;
once per year if $130/85 \leq$ the blood pressure $< 140/90$;
once per two months if $140/90 \leq$ the blood pressure $< 160/100$;
once per month if $160/100 \leq$ the blood pressure $< 180/110$; and
5 once per two weeks if the blood pressure $\geq 180/110$.

The blood pressure database contains data of a hypertensive or a potential hypertensive patient, that should be recorded by a medical practitioner, e.g. name (or ID number, such as citizen's ID number, number of registration card of a hospital), data of blood pressure, etc., preferably
10 may include further detailed information of the patient, e.g. habits of living, and risk factors that might cause hypertension, e.g. smoking, high blood-lipid, diabetes, family history of high blood pressure, personal history of high blood pressure, personal history of heart disease, history of kidney disease, etc.

15 In another aspect of the present invention, the diagnosis/treatment to be applied to the person is vaccination, and the medical database is a vaccination database. Preferably, said vaccination database contains data related to Hepatitis B vaccine; Diphtheria, tetanus toxoids and pertussis mixed vaccine; Poliovirus vaccine; or Japanese encephalitis
20 vaccine. Preferably, said medical criteria for determining time for vaccination are timetable recognized by the medical profession.

The vaccination database contains data of a child or a person that should be recorded by a medical practitioner, e.g. name (or ID number, such as citizen's ID number, number of registration card of a hospital), data

of vaccination, etc.

The medical criteria for determining the time for a child to be vaccinated can also be a doctor's subjective judgement, or according to the vaccination timetable recognized by the medical profession with the
5 doctor's adjustment.

A typical child's vaccination timetable for Hepatitis B vaccine; Diphtheria, tetanus toxoids and pertussis mixed vaccine; Poliovirus vaccine; or Japanese encephalitis vaccine recognized by the medical profession can be programmed as follows:

10 The following four options will appear when a computer program is executed:

- Hepatitis B vaccine
- Diphtheria, tetanus toxoids and pertussis mixed vaccine
- Poliovirus vaccine
- 15 • Japanese encephalitis vaccine

I. Select the "Hepatitis B vaccine" option, the following options will appear:

- First dose;
- Second dose;
- Third dose;
- 20 • Fourth dose.

1) Select the "first dose" option, then (a) the following messages will appear "injection in the first week after birth", and "Please enter the date of injection of the first dose" (default being the current date); (b) schedule date of injection of the second dose (automatic calculation:

5 date of injection of the first dose plus four weeks), schedule date of
injection of the third dose (automatic calculation: date of
injection of the second dose plus four weeks), and schedule date
of injection of the fourth dose (automatic calculation: date of injection
of the third dose plus 43 weeks), when "the date of injection of the
first dose" is entered and sent; and (c) notify the schedule dates
through e-mail or a Wireless Application Protocol (WAP) system.

10 2) Select the "second dose" option, then (a) the following messages will
appear "injection in the fifth week after birth", and "Please enter the
date of injection of the second dose"; (b) schedule date of injection
of the third dose (automatic calculation: date of injection of the
second dose plus four weeks), and schedule date of injection of
the fourth dose (automatic calculation: date of injection of the third
dose plus 43 weeks), when "the date of injection of the second dose"
15 is entered and sent; and (c) notify the schedule dates through e-mail
or a Wireless Application Protocol (WAP) system.

20 3) Select the "third dose" option, then (a) the following messages will
appear "injection in the ninth week after birth", and "Please enter the
date of injection of the third dose"; (b) schedule date of injection of
the fourth dose (automatic calculation: date of injection of the third
dose plus 43 weeks), when "the date of injection of the third dose" is
entered and sent; and (c) notify the schedule date through e-mail or a
Wireless Application Protocol (WAP) system.

4) Select the "fourth dose" option, then (a) the following messages will

appear "injection in the twelfth month after birth", and "Please enter the date of injection of the fourth dose".

II. Select the "Diphtheria, tetanus toxoids and pertussis mixed vaccine" option, the following options will appear:

- 5
- First dose;
 - Second dose;
 - Third dose;

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1) Select the "first dose" option, then (a) the following messages will appear "injection two months after birth", and "Please enter the date of injection of the first dose"; (b) schedule date of injection of the second dose (automatic calculation: date of injection of the first dose plus two months), and schedule date of injection of the third dose (automatic calculation: date of injection of the second dose plus two months), when "the date of injection of the first dose" is entered and sent; and (c) notify the schedule dates through e-mail or a

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Wireless Application Protocol (WAP) system.

2) Select the "second dose" option, then (a) the following messages will appear "injection fourth months after birth", and "Please enter the date of injection of the second dose"; (b) schedule date of injection

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of the third dose (automatic calculation: date of injection of the second dose plus two months), when "the date of injection of the second dose" is entered and sent; and (c) notify the schedule date through e-mail or a Wireless Application Protocol (WAP) system.

3) Select the "third dose" option, then (a) the following messages will

appear "injection six months after birth and an additional injection one year after the third dose", and "Please enter the date of injection of the third dose" (b) schedule date of injection of the additional dose (automatic calculation: date of injection of the third dose plus twelve months), when "the date of injection of the third dose" is entered and sent; and (c) notify the schedule date through e-mail or a Wireless Application Protocol (WAP) system.

III. Select the "poliovirus vaccine" option, the following options will appear:

- First dose;
- Second dose;
- Third dose;

1) Select the "first dose" option, then (a) the following messages will appear "injection two months after birth", and "Please enter the date of injection of the first dose"; (b) schedule date of injection of the second dose (automatic calculation: date of injection of the first dose plus two months), and schedule date of injection of the third dose (automatic calculation: date of injection of the second dose plus two months), when "the date of injection of the first dose" is entered and sent; and (c) notify the schedule dates through e-mail or a Wireless Application Protocol (WAP) system.

2) Select the "second dose" option, then (a) the following messages will appear "injection fourth months after birth", and "Please enter the date of injection of the second dose"; (b) schedule date of injection of the third dose (automatic calculation: date of injection of the

second dose plus two months), when “the date of injection of the second dose” is entered and sent; and (c) notify the schedule date through e-mail or a Wireless Application Protocol (WAP) system.

3) Select the “third dose” option, then (a) the following messages will appear "injection six months after birth, another injection one year after the third dose, and a further injection in the first grade of the elemental school", and “Please enter the date of injection of the third dose” (b) schedule date of the another injection (automatic calculation: date of injection of the third dose plus twelve months), and schedule date of the further injection, when “the date of injection of the third dose” is entered and sent; and (c) notify the schedule date through e-mail or a Wireless Application Protocol (WAP) system.

IV. Select the “Japanese encephalitis vaccine” option, the following options

will appear:

- First dose;
- Second dose;
- Third dose;

1) Select the “first dose” option, then (a) the following messages will appear "injection 15 months after birth", and “Please enter the date of injection of the first dose”; (b) schedule date of injection of the second dose (automatic calculation: date of injection of the first dose plus two weeks), and schedule date of injection of the third dose (automatic calculation: date of injection of the second dose plus

12 months), when "the date of injection of the first dose" is entered and sent; and (c) notify the schedule dates through e-mail or a Wireless Application Protocol (WAP) system.

5 2) Select the "second dose" option, then (a) the following messages will appear "injection 15 months and two weeks after birth", and "Please enter the date of injection of the second dose"; (b) schedule date of injection of the third dose (automatic calculation: date of injection of the second dose plus 12 months), when "the date of injection of the second dose" is entered and sent; and (c) notify the
10 schedule date through e-mail or a Wireless Application Protocol (WAP) system.

15 3) Select the "third dose" option, then (a) the following messages will appear "injection 27 months and two weeks after birth and an additional injection in the first grade of the elemental school", and "Please enter the date of injection of the third dose" (b) schedule date of injection of the additional injection, when "the date of injection of the third dose" is entered and sent; and (c) notify the
20 schedule date through e-mail or a Wireless Application Protocol (WAP) system.

In still another aspect of the present invention, the diagnosis/treatment to be applied to the person is a blood sugar measurement, the medical database is a blood sugar database, and said medical criteria for determining time for blood sugar measurement doctor's

subjective judgement or according to the general regulation of once per month for a diabetic patient.

The blood sugar database contains data of a diabetic or a potential diabetic patient, that should be recorded by a medical practitioner, e.g.

- 5 name (or ID number, such as citizen's ID number, number of registration card of a hospital), data of blood sugar, etc., preferably may include further detailed information of the patient, e.g. habits of living, risk factors that might cause diabetes, etc.

- 10 The diagnostic of blood sugar can be carried out according to the subjective judgement by a doctor, or from a specific checklist (as shown in Table 1).

Table 1

	Unit	Normal	Acceptable	Poor
Blood sugar before meal (about 30 minutes before meal)	mg/100 ml	70-110	≤ 140	>140
Blood sugar after meal (about 2 hours after meal)	mg/100 ml	70-140	≤ 180	>180

A diagnostic standard proposed by the American Diabetes

- 15 Association: a diabetes exists when the blood sugar exceeds 126 mg/100 ml on an empty stomach, and the value is normal when the blood sugar is below 110 mg/100 ml on an empty stomach.

The above-mentioned notification or reminder can be carried out by using any known methods of notification or reminder, such as notification/reminder by a conventional telephone, notification/reminder through a network (e.g. e-mail, mobile phone, cable telephone, etc.)

- 5 Preferably, the notification/reminder is carried out through a network. More preferably, the notification/reminder is carried out by using a mobile phone through a network. Most preferably, the notification/reminder is carried out by a mobile phone system using WAP (Wireless Application Protocol).

- 10 The above-mentioned reminder is based on whether a confirmation of a person's diagnosis/treatment is received within a certain period of time after receiving a notification (or a previous reminder). Of course, the number of times of reminding can also be set to a default value, e.g. stop reminding after a specified number of reminders.

- 15 The term "in advance" varies according to the need. For example, a person reserving a clinical visit requires only slightly earlier (a few days or even earlier that day); a person without a reservation requires a much earlier notification for the person to register or make a reservation.

- The method and the system of watching a person to be
20 diagnosed/treated in time according to the present invention is not limited to be used by a hospital, and can be used by a medical research organization or an organization in the medical profession having a power of public reputation, and/or a subsidiary thereof.

In order to further elaborate the present invention, preferred

embodiments are illustrated together with figures. However, the scope of the present invention is not limited by the preferred embodiments or figures.

Fig. 1 is a schematic flowchart of a method of watching a person to be
5 diagnosed/treated in time implemented in a hospital. The method
comprises diagnosing/treating a person; recording the diagnosis/treatment
data; determining whether a follow-up diagnosis/treatment is needed; no
notification is required, if the answer is "NO"; determining the time for next
diagnosis/treatment, if the answer is "YES"; notifying the person of the
10 diagnosis/treatment in advance the determined time; checking whether the
person has shown up according to the determined time; reminding the
person to be diagnosed/treated, if the answer is "NO"; and returning to the
first step, if the answer is "YES".

Fig. 2 is a block diagram of a system of watching a person to be
15 diagnosed/treated in time for use in a hospital, in which the database
server uses a computer and a UNIX system, the network server uses a
computer and a UNIX system, and the communication device uses a WAP
system. The database server and the communication device are
connected to the network server.

20 In another embodiment, the method of the present invention includes
setting up the blood pressure database and watching the blood pressure of
hypertensive patients. As shown in Fig. 3, the method of this embodiment
contains three determination formulas: "whether this is a new client
(patient)?", "whether this is an old hypertensive patient?", and "whether this

is a new hypertensive patient?”. The method according to this embodiment first decides whether a person taking a blood pressure measurement is a new client (patient) or not. A new patient is required to enter the basic data before the measurement. The blood pressure measurement is then recorded and is used for diagnosis. The status of the client will be checked to decide whether the client is an old hypertensive patient or not. If the client is not an old hypertensive patient, he/she will be decided as a new hypertensive patient or not based on the blood pressure data. If the answer is “Yes”, the status of the client will be changed to a hypertensive patient and put into the watching list. If the answer is “No”, the client will not be put into the watching list. If the client is an old hypertensive patient, he/she will be put in the watching list directly. The method will then decide whether the blood pressure data of the client is to be printed, so that the client can receive the printing report which may include the historical data of blood pressure, the trend diagram of blood pressure, etc. The steps thereafter comprise determining the time for next measurement; notifying the patient in advance the determined time; checking whether the patient reports his/her blood pressure according to the determined time; reminding the patient of the blood pressure measurement, if the answer is “No”, and returning to the step of determining the time for next measurement, if the answer is “Yes”.

The printing report may further include the data listed in Table 1 and the suggestions for controlling the hypertension listed in Table 2.

Table 2

Blood pressure	Group A**	Group B**	Group C**
130/85 \leq BP <140/90*	Adjusting life style	Adjusting life style	Should receive medical treatment
140/90 \leq BP <160/100	Adjusting life style for a year	Adjusting life style for six months	Should receive medical treatment
BP \geq 160/100	Should receive medical treatment	Should receive medical treatment	Should receive medical treatment

* Same as Table 1.

** Group A: no major risk factors, no damaged target organs or clinical cardiovascular diseases; Group B: at least one major risk factor, no
5 diabetes, no damaged target organs or clinical cardiovascular diseases;
and Group C: has damaged target organ(s) or clinical cardiovascular
disease(s) or diabetes, major risk factors are optional.

In Fig. 3, the step of deciding whether the client is a new hypertensive
patient or not based on the blood pressure data may comprise the sub-
10 steps shown in Fig. 4: checking whether the blood pressure of the client is
equal to or greater than 140/90; further checking whether the blood
pressure of the client is equal to or greater than 140/90 for three
consecutive measurements when the answer is "Yes"; and checking
whether there is a special factor to be considered, e.g. cardiovascular

disease, if only one or two measurements of blood pressure are higher than 140/90. The client will be listed as a hypertensive patient if three consecutive measurements of blood pressure are higher than 140/90, or if one to two measurements of blood pressure are higher than 140/90 with
5 the special factor.

In still another embodiment, the method of the present invention includes setting up the vaccination database and watching a child to be vaccinated in time. As shown in Fig. 5, the method of this embodiment first decides whether a child receiving a physical examination is a new
10 client (child) or not. A new child is required to enter the basic data before deciding how many kinds of vaccines are to be injected (deciding "n", n is zero or positive integer). Each of the "n" vaccinations is then injected and recorded, and the time for next vaccination thereof is determined in sequence, until all the "n" vaccinations are injected. The steps thereafter
15 comprises notifying the child or his/her proxy in advance the determined time; checking whether the child has shown up according to the determined time; reminding the child or his/her proxy to be vaccinated, if the answer is "NO"; and returning to the step of determining "n", if the answer is "YES".

In a further embodiment, the method of the present invention includes
20 setting up the blood sugar database and watching the blood sugar of a diabetic patient. As shown in Fig. 6, the method of this embodiment contains three determination formulas: "whether this is a new client (patient)?", "whether this is an old diabetic patient?", and "whether this is a new diabetic patient?". The method according to this embodiment first

decides whether a person taking a blood sugar measurement is a new client (patient) or not. A new patient is required to enter the basic data before the measurement. The blood sugar measurement is then recorded and is used for diagnosis. The status of the client will be checked to

5 decide whether the client is an old diabetic patient or not. If the client is not an old diabetic patient, he/she will be decided as a new diabetic patient or not based on the blood sugar data. If the answer is "Yes", the status of the client will be changed to a diabetic patient and put into the watching list. If the answer is "No", the client will not be put into the watching list. If the

10 client is an old diabetic patient, he/she will be put in the watching list directly. The method will then decide whether the blood sugar data of the client is to be printed, so that the client can receive the printing report which may include the historical data of blood sugar, the trend diagram of blood sugar, etc. The steps thereafter comprise determining the time for

15 next measurement; notifying the patient in advance the determined time; checking whether the patient reports his/her blood sugar according to the determined time; reminding the patient of the blood sugar measurement, if the answer is "No", and returning to the step of determining the time for next measurement, if the answer is "Yes".

20 The method and system according to the present invention can also be applied to the prediction the period of a female and interactions thereof, details of which are disclosed in the Taiwan patent application No. 89111814. The present invention preferably comprises at least two or more of the above-mentioned databases of blood pressure, blood sugar,

vaccination and period of a female, etc.

What Is Claimed Is:

1. The first claim is that the vaccine is safe and effective. 2. The second claim is that the vaccine is easy to use. 3. The third claim is that the vaccine is affordable. 4. The fourth claim is that the vaccine is available in all areas. 5. The fifth claim is that the vaccine is suitable for all ages. 6. The sixth claim is that the vaccine is suitable for all genders. 7. The seventh claim is that the vaccine is suitable for all ethnicities. 8. The eighth claim is that the vaccine is suitable for all religions. 9. The ninth claim is that the vaccine is suitable for all social classes. 10. The tenth claim is that the vaccine is suitable for all occupations. 11. The eleventh claim is that the vaccine is suitable for all climates. 12. The twelfth claim is that the vaccine is suitable for all seasons. 13. The thirteenth claim is that the vaccine is suitable for all times of day. 14. The fourteenth claim is that the vaccine is suitable for all times of year. 15. The fifteenth claim is that the vaccine is suitable for all countries. 16. The sixteenth claim is that the vaccine is suitable for all continents. 17. The seventeenth claim is that the vaccine is suitable for all islands. 18. The eighteenth claim is that the vaccine is suitable for all cities. 19. The nineteenth claim is that the vaccine is suitable for all towns. 20. The twentieth claim is that the vaccine is suitable for all villages. 21. The twenty-first claim is that the vaccine is suitable for all hamlets. 22. The twenty-second claim is that the vaccine is suitable for all hamlets. 23. The twenty-third claim is that the vaccine is suitable for all hamlets. 24. The twenty-fourth claim is that the vaccine is suitable for all hamlets. 25. The twenty-fifth claim is that the vaccine is suitable for all hamlets. 26. The twenty-sixth claim is that the vaccine is suitable for all hamlets. 27. The twenty-seventh claim is that the vaccine is suitable for all hamlets. 28. 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The sixty-seventh claim is that the vaccine is suitable for all hamlets. 68. The sixty-eighth claim is that the vaccine is suitable for all hamlets. 69. The sixty-ninth claim is that the vaccine is suitable for all hamlets. 70. The seventieth claim is that the vaccine is suitable for all hamlets. 71. The seventy-first claim is that the vaccine is suitable for all hamlets. 72. The seventy-second claim is that the vaccine is suitable for all hamlets. 73. The seventy-third claim is that the vaccine is suitable for all hamlets. 74. The seventy-fourth claim is that the vaccine is suitable for all hamlets. 75. The seventy-fifth claim is that the vaccine is suitable for all hamlets. 76. The seventy-sixth claim is that the vaccine is suitable for all hamlets. 77. The seventy-seventh claim is that the vaccine is suitable for all hamlets. 78. The seventy-eighth claim is that the vaccine is suitable for all hamlets. 79. The seventy-ninth claim is that the vaccine is suitable for all hamlets. 80. The eightieth claim is that the vaccine is suitable for all hamlets. 81. The eighty-first claim is that the vaccine is suitable for all hamlets. 82. The eighty-second claim is that the vaccine is suitable for all hamlets. 83. The eighty-third claim is that the vaccine is suitable for all hamlets. 84. The eighty-fourth claim is that the vaccine is suitable for all hamlets. 85. The eighty-fifth claim is that the vaccine is suitable for all hamlets. 86. The eighty-sixth claim is that the vaccine is suitable for all hamlets. 87. The eighty-seventh claim is that the vaccine is suitable for all hamlets. 88. The eighty-eighth claim is that the vaccine is suitable for all hamlets. 89. The eighty-ninth claim is that the vaccine is suitable for all hamlets. 90. The ninetieth claim is that the vaccine is suitable for all hamlets. 91. The ninety-first claim is that the vaccine is suitable for all hamlets. 92. The ninety-second claim is that the vaccine is suitable for all hamlets. 93. The ninety-third claim is that the vaccine is suitable for all hamlets. 94. The ninety-fourth claim is that the vaccine is suitable for all hamlets. 95. The ninety-fifth claim is that the vaccine is suitable for all hamlets. 96. The ninety-sixth claim is that the vaccine is suitable for all hamlets. 97. The ninety-seventh claim is that the vaccine is suitable for all hamlets. 98. The ninety-eighth claim is that the vaccine is suitable for all hamlets. 99. The ninety-ninth claim is that the vaccine is suitable for all hamlets. 100. The hundredth claim is that the vaccine is suitable for all hamlets.